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NOTICE OF ALLOWANCE AND FEE(S) DUE

23696 7590 0325/2009 QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121 EXAMINER

MUL GARY

ART UNIT PAPER NUMBER

2416

DATE MAILED: 03/25/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/620,023	07/14/2003	Naga Bhushan	030168U2	8631		
TITLE OF INVENTION: REVERSE RATE INDICATOR DETECTION						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/25/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off tions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a					hould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				No Fe pa ha	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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				Γ				(Depositor's name)
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								(Date)
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nonprovisional	NO		\$1510	\$300	\$0		\$1810	06/25/2009
EXAM	INER		ART UNIT	CLASS-SUBCLASS	7			
MUI, C	GARY		2416	370-252000	_			
Change of corresponde CFR 1.363).	ence address or indicatio	n of "F	ee Address" (37	2. For printing on the				
	ondence address (or Cha 3/122) attached.	nge of	Correspondence	(I) the names of up or agents OR, alterna	to 3 registered pate tively,	nt attor		
				(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			e of a Customer	2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME A								
PLEASE NOTE: Unli recordation as set forth	ess an assignee is ident h in 37 CFR 3.11. Com	ified b	elow, no assignee of this form is NO	data will appear on the I a substitute for filing a	patent. If an assig n assignment.	nee is i	dentified below, the d	ocument has been filed for
(A) NAME OF ASSIC				(B) RESIDENCE: (CIT				
Please check the appropri	iate assignee category or	catego	ries (will not be pr	inted on the patent):	Individual 🗆 0	Corporat	ion or other private gro	oup entity Government
4a. The following fee(s) a	are submitted:		41	. Payment of Fee(s): (PI	ease first reapply :	inv pre	viously paid issue fee	shown above)
☐ Issue Fee				A check is enclosed				
Publication Fee (No small entity discount permitted) Advance Order - # of Copies			ed)	☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
				overpayment, to Dep	oosit Account Num	ber	(enclose a	n extra copy of this form).
	s SMALL ENTITY state	ıs. See	37 CFR 1.27.	☐ b. Applicant is no lo				
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req	uired) tes Pat	will not be accepted	from anyone other than Office.	the applicant; a re	gistered	attorney or agent; or th	ne assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C USP1 rden, sl O NOT	11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR	on is required to obtain on 1.14. This collection is a depending upon the ind e Chief Information Officompleted FORMS	r retain a benefit by stimated to take 12 lividual case. Any o cer, U.S. Patent an TO THIS ADDRES	the pub minute commen 1 Trades S. SEN	dic which is to file (and s to complete, includir ts on the amount of ti mark Office, U.S. Dep D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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QUALCOMM IN	CORPORATED	MUI, GARY		
5775 MOREHOUS		ART UNIT PAPER NUMBE		
SAN DIEGO, CA 92121			2416	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 898 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 898 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)		
Application No.	Applicant(s)		
10/620,023	BHUSHAN ET AL.		
Examiner	Art Unit		
CARV MIII	2/16		

The MAILING DATE of this communication appears on the All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMorewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1.313 and MP	AAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initial
 This communication is responsive to <u>01/30/2009</u>. 	
 The allowed claim(s) is/are <u>1-17</u>. 	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THEE MONTHS FROM THE "MAILING DATE" of this controled below. Failure to timely comply will result in ABANDONMENT of t THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Not INFORMAL PATENT APPLICATION (PTO-152) which gives reason to CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Pate 1) hereto or 2) to Paper No./Mail Date	ceived. belived in Application No have been received in this national stage application from the munication to file a reply complying with the requirements his application. e the attached EXAMINER'S AMENDMENT or NOTICE OF (s) why the oath or declaration is deficient. mitted. ent Drawing Review (PTO-948) attached
(b) ☐ including changes required by the attached Examiner's Amendi Paper No. /Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) sh each sheet. Replacement sheet(s) should be labeled as such in the header	ould be written on the drawings in the front (not the back) of
CEPOSIT OF and/or INFORMATION about the deposit of Bit attached Examiner's comment regarding REQUIREMENT FOR THE attached Examiner's comment regarding REQUIREMENT FOR THE	DLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date Lexaminer's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No./Mail Date Taximiner's Amendment/Comment 8. Examiner's Statement of Reasons for Allowance 9. Other

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under Ex Parte Quayle, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114.
 Applicant's submission filed on January 30, 2009 has been entered.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on January 30, 2009 was filed after the mailing date of the Notice of Allowance on November 03, 2008. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 1, 9, and 19 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose <u>using historical transmission</u> information to reduce the number of hypotheses comprising the plurality of hypotheses within the set of hypotheses, wherein the number of hypotheses is reduced by limiting the combinations of available data rates and the number of subpackets based on the historical

transmission information. The prior art of record fails to show or render obvious the above

underline limitations as claimed.

The prior art of record, Kazuhiro et al. (JP 2001-094574), teaches an error control system in a

radio communications system; however, it fails to teach the above underlined claimed

limitations.

Any comments considered necessary by applicant must be submitted no later than the payment

of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Gary Mui whose telephone number is (571) 270-1420. The

examiner can normally be reached on Mon. - Thurs. 9 - 3 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

Art Unit: 2416

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ricky Ngo/

Supervisory Patent Examiner, Art Unit

2416

/Gary Mui/

Examiner, Art Unit 2416